Flatpanel®

Insulating Flat Panels

Pvc

Aluminium

TEHNi
Pantelos®
GROUP OF COMPANIES

Flatpanel
Insulating Flat Panels

Aluminium

Insulating material: Extruded Polystyrene
Color: Powder Coating (Electrostatic) White*

Up=1,34 W/(m2K)

Code	Dimensions	Aluminium Thickness	Panel Thickness
901	210 x 90 cm	1,0 mm	21,0 mm
902	200 x 100 cm	1,0 mm	21,0 mm
903	250 x 125 cm	1,0 mm	21,0 mm
906	210 x 90 cm	0,6 mm	21,0 mm
908	200 x 100 cm	0,6 mm	21,0 mm

Also available in 1,5 mm & 2,0 mm Aluminium Thickness
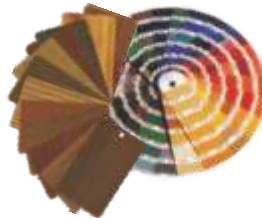
* Available in hundreds of Ral and Wood colors

QUALICOAT
Qualicoat
Seaside Class
Licence No. 122

Aluminium + PVC Foil

Insulating material: Extruded Polystyrene
Color: Wood Grain Pvc Foil

Dimensions	Thickness	Panel Thickness
210 x 90 cm	1,0 mm	24,0 mm

Colors

RENOLIT: 2052089-167 - EICHE DUNCEL, 715505-167 - GRAU, 2065021-167 - SAPELI, 701605-167 - ANTHRAZIT GRAU
2097013-167 - MAHAGONI, 515005-167 - STAHL BLAU, 2178001-167 - GOLDEN OAK, 600505-167 - MOOSGRUN
2178007-167 - NUSSBAUM V, 500705167 - BRILLANT BLAU, 308105-167 - DUNKEL ROT, 3149008167 - EICHE RUSTICAL
137905-167 - CREMEWEISS, 3167004167 - MOOREICHE, 612505-167 - DUNKEL GRU

HORNSCHUCH: F436-2036 - STAUFEREICHE KOLONIAL, F436-5003 - ANTHRAZITGRAU, F436-7022 - TITANIUM
F436-2048 - STAUFEREICHE MOCCA, F436-7003 - ANTHRAZITGRAU SFTN, F436-2002 - SAPELI
F436-2007 - MONTANA EICHE TABAK, F436-7032 - BASALTGRAU, F436-2035 - STAUREICHE TERRA
F436-1001 - METBRUSH ALUMINIUM, F436-5010 - SCHWARZBRAUN, F436-5002 - SILBERGRAU

COVA: 49237 - COVA SIENA PN, 49233 - COVA SIENA PR

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Available Flat Panel Types

PVC

Insulating material: Extruded Polystyrene
PVC Color: White

Up=1,21 W/(m2K)

Code	Dimensions	Pvc Thickness	Panel Thickness
930	200 x 100 cm	1,0 mm	24,0 mm
932	300 x 150 cm	1,0 mm	24,0 mm
960	200 x 150 cm	1,0 mm	24,0 mm
972	300 x 200 cm	1,0 mm	24,0 mm
978	200 x 75 cm	1,0 mm	24,0 mm
933	200 x 100 cm	1,5 mm	24,0 mm

Up=1,38 W/(m2K)

Code	Dimensions	Pvc Thickness	Panel Thickness
939	200 x 100 cm	1,0 mm	20,0 mm
941	300 x 150 cm	1,0 mm	20,0 mm
968	200 x 150 cm	1,0 mm	20,0 mm
971	300 x 200 cm	1,0 mm	20,0 mm
979	200 x 75 cm	1,0 mm	20,0 mm
942	200 x 100 cm	1,5 mm	20,0 mm

Also available in 1,3 mm & 1,5 mm PVC Thickness

HPL + PVC Foil

Insulating material: Extruded Polystyrene
Color: Wood Grain Pvc Foil

| Code	Dimensions	Color	HPL Thickness	Panel Thickness
986	300 x 115 cm	Golden Oak	2,0 mm	24,0 mm
987	300 x 115 cm	Nussbaum	2,0 mm	24,0 mm
988	300 x 115 cm	Mahagoni	2,0 mm	24,0 mm
992	215 x 90 cm	Golden Oak	2,0 mm	24,0 mm
993	215 x 90 cm	Nussbaum	2,0 mm	24,0 mm
935	215 x 90 cm	Mahagoni	2,0 mm	24,0 mm
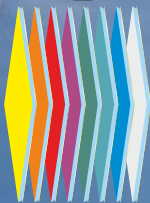
What is a Flatpanel ?

Flat Panel is a 'smart' product offering the constructor unlimited capabilities.

It is very cheap and at the same time very easy to use.

Its manufacture is a result of TEHNI's S.A. long experience in Panel Industry

It consists of 2 Aluminium or PVC Flat Sheets that coats the insulating material. Sheets are placed together with a special adhesive.

Flat Panels are offered in many different dimensions and also in a wide range of colours.

Protective film
Adhesive
Extruded Polysterene
Dye
Aluminium or Pvc
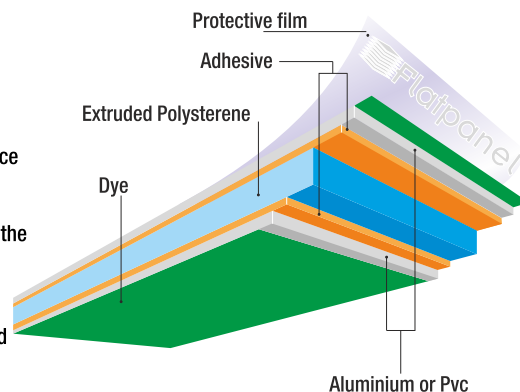
Advantages - Where to use

Flat Panel offers to the constructor a wide range of competitive advantages against other methods used for the cover of surfaces.

Ease of use, since Flat Panels are offered in many different dimensions. Cutting as well as product installation is completed in very few minutes.

High thermal and sound insulation performance because of the polyurethane that contains

Money can be saved because of price competitiveness compared to all other materials used for surface covering.

Technical specifications

1. PVC Sheets
1.1 Five years colour guarantee
1.2 Density (g/cm^3): 1,38 1,46
1.3 Fire resistance (DIN 4102 : Κλάση B1
1.4 Temperature application range min: -20(^{0}C) / max: +60(^{0}C)

2. Extruded polystyrene STYROFOAM LB
2.1 Minimum density (kg/m^3): 35
2.2 Thermal conduction factor λ 90 days at 100^{0}C (kcal/mh^{0}C): 0,028 max
2.3 Resistance at compression value at leakage point or 10% deformation (N/mm^2): 0,11
2.4 Water vapor permeability μ (air μ=1): 80 250
2.5 Water absorption (% volume): 1 max
2.6 Temperature application range: -50(^{0}C) / max: +75(^{0}C)

3. Polyurethane hotmelt adhesive
3.1 Viscosity (Brookfield): 10 000 mPa.s / 130 ^{0}C
3.2 Curing time to final strength: 2 5 days depending on substrate
3.3 Temperature application range: -50(^{0}C) / max: +150(^{0}C)

Packaging : Flat Panels are packed in wooden pallets, each one containing about 50 pieces in order to be safely transferred.

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